

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

Listing Of Claims

1. (Currently Amended) A ~~tangible~~-non-transitory computer-readable medium having a data structure for managing reproduction of at least one still picture, comprising:

a data area storing first and second stream files, the first stream file including presentation data, the second stream file including audio data, the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture and associated graphic data, the at least one still picture unit not including the audio data; and

a navigation area storing at least one playlist file and first and second clip information files, the at least one playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and an out-point of the first stream file for reproducing the presentation data, at least one still picture and associated graphic data in a still picture unit being reproduced synchronously, the at least one playitem further including duration information indicating whether to display at least one still picture for one of a finite and an infinite period of time, the at least one sub-playitem indicating an in-point and an out-point of the second stream file for reproducing the audio data, the audio data being reproduced asynchronously and independently from at least one still picture unit, the first clip information file including a first entry point map, the first entry point map including at least one entry point mapping between a presentation time and a unit of the first stream file, the second clip information file including a second entry point

map, the second entry point map including at least one entry point mapping between a presentation time and a unit of the second stream file.

2. (Currently Amended) The ~~tangible~~-non-transitory computer-readable medium of claim 1, wherein the entry point of the first entry point map provides an address of the still picture.

3. – 11. (Cancelled)

12. (Currently Amended) The ~~tangible~~-non-transitory computer-readable medium of claim 1, wherein the presentation data is multiplexed into a transport stream on a still picture unit basis.

13. (Currently Amended) The ~~tangible~~-non-transitory computer-readable medium of claim 12, wherein each elementary stream of the presentation data are aligned within the still picture unit.

14. (Currently Amended) The ~~tangible~~-non-transitory computer-readable medium of claim 13, wherein each elementary stream is a packetized elementary stream.

15. (Currently Amended) The ~~tangible~~-non-transitory computer-readable medium of claim 14, wherein each still picture unit includes one packet from each packetized elementary stream.

16-17. (Cancelled)

18. (Currently Amended) A method of recording a data structure for managing reproduction of at least one still picture on a recording medium, comprising:

recording first and second stream files, the first stream file including presentation data, the second stream file including audio data, the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture and associated graphic data, the at least one still picture unit not including the audio data; and

recording at least one playlist file and first and second clip information files, the at least one playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and an out-point of the first stream file for reproducing the presentation data, at least one still picture and associated graphic data in a still picture unit being reproduced synchronously, the at least one playitem further including duration information indicating whether to display at least one still picture for one of a finite and an infinite period of time, the at least one sub-playitem indicating an in-point and an out-point of the second stream file for reproducing the audio data, the audio data being reproduced asynchronously and independently from at least one still picture unit, the first clip information file including a first entry point map, the first entry point map including at least one entry point mapping between a presentation time and a unit of the first stream file, the second clip information file including a second entry point map, the second entry point map including at least one entry point mapping between a presentation time and a unit of the second stream file.

19. (Currently Amended) A method of reproducing a data structure for managing reproduction of at least one still picture recorded on a recording medium, comprising:

reproducing first and second stream files, the first stream file including presentation data, the second stream file including audio data, the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture and associated graphic data, the at least one still picture unit not including the audio data; and

reproducing at least one playlist file and first and second clip information files, the at least one playlist including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and an out-point of the first stream file for reproducing the presentation data, at least one still picture and associated graphic data in a still picture unit being reproduced synchronously, the at least one playitem further including duration information indicating whether to display at least one still picture for one of a finite and an infinite period of time, the at least one sub-playitem indicating an in-point and an out-point of the second stream file for reproducing the audio data, the audio data being reproduced asynchronously and independently from at least one still picture unit, the first clip information file including a first entry point map, the first entry point map including at least one entry point mapping between a presentation time and a unit of the first stream file, the second clip information file including a second entry point map, the second entry point map including at least one entry point mapping between a presentation time and a unit of the second stream file.

20. (Currently Amended) An apparatus for recording a data structure for managing reproduction of at least one still picture on a recording medium, comprising:

a pick up configured to record data on the recording medium; and

a controller configured to control the pick up to record first and second stream files, the first stream file including presentation data, the second stream file including audio data, the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture and associated graphic data, the at least one still picture unit not including the audio data, and configured to control the pick up to record at least one playlist file and first and second clip information files, the at least one playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and an out-point of the first stream file for reproducing the presentation data, at least one still picture and associated graphic data in a still picture unit being reproduced synchronously, the at least one playitem further including duration information indicating whether to display at least one still picture for one of a finite and an infinite period of time, the at least one sub-playitem indicating an in-point and an out-point of the second stream file for reproducing the audio data, the audio data being reproduced asynchronously and independently from at least one still picture unit, the first clip information file including a first entry point map, the first entry point map including at least one entry point mapping between a presentation time and a unit of the first stream file, the second clip information file including a second entry point map, the second entry point map including at least one entry point mapping between a presentation time and a unit of the second stream file.

21. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of at least one still picture recorded on a recording medium, comprising:

a pick up configured to reproduce data recorded on the recording medium; and

a controller configured to control the pick up to reproduce first and second stream files, the first stream file including presentation data, the second stream file including audio data, the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture and associated graphic data, the at least one still picture unit not including the audio data, and configured to control the pick up to reproduce at least one playlist file, a first clip information file and a second clip information file, the at least one playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and an out-point of the first stream file for reproducing the presentation data, at least one still picture and associated graphic data in a still picture unit being reproduced synchronously, the at least one playitem further including duration information indicating whether to display at least one still picture for one of a finite and an infinite period of time, the at least one sub-playitem indicating an in-point and an out-point of second stream file for reproducing the audio data, the audio data being reproduced asynchronously and independently from at least one still picture unit, the first clip information file including a first entry point map, the first entry point map including at least one entry point mapping between a presentation time and a unit of the first stream file, the second clip information file including a second entry point map, the second entry point map including at least one entry point mapping between a presentation time and a unit of the second stream file.

22. – 25. (Cancelled)

26. (Previously Presented) The method of claim 18, wherein the presentation data is multiplexed into a transport stream on a still picture unit basis.

27. (Previously Presented) The method of claim 26, wherein each elementary stream of the presentation data are aligned within the still picture unit.

28. – 31. (Cancelled)

32. (Previously Presented) The method of claim 19, wherein the presentation data is multiplexed into a transport stream on a still picture unit basis.

33. (Previously Presented) The method of claim 32, wherein each elementary stream of the presentation data are aligned within the still picture unit.

34. – 37. (Cancelled)

38. (Previously Presented) The apparatus of claim 20, wherein the presentation data is multiplexed into a transport stream on a still picture unit basis.

39. (Previously Presented) The apparatus of claim 38, wherein each elementary stream of the presentation data are aligned within the still picture unit.

40. – 43. (Cancelled)

44. (Previously Presented) The apparatus of claim 21, wherein the presentation data is multiplexed into a transport stream on a still picture unit basis.

45. (Previously Presented) The apparatus of claim 44, wherein each elementary stream of the presentation data are aligned within the still picture unit.

46. (Previously Presented) The method of claim 19, wherein the recording medium is a read-only recording medium.

47. (Previously Presented) The method of claim 19, wherein the recording medium is a recordable recording medium.

48. (Previously Presented) The apparatus of claim 21, wherein the recording medium is a read-only recording medium.

49. (Previously Presented) The apparatus of claim 21, the recording medium is a recordable recording medium.

50. (Previously Presented) The apparatus of claim 20, further comprising:

an encoder configured to encode data;

a multiplexer configured to multiplex the encoded data to create at least one transport stream; and

a source packetizer configured to packetize transport packets into source packets.

51. (Previously Presented) The apparatus of claim 21, further comprising:

a source depacketizer configured to depacketize source packets into transport packets;

a demultiplexer configured to demultiplex the transport packets into encoded data; and

a decoder configured to decode the encoded data to original data to be displayed.

<End of Claims Listing>